

13. The process for reducing NOx according to any one of Claims 9 to 12, wherein 90% or more of the hydrocarbons calculated in terms of methane contained in the exhaust gas are hydrocarbons having four or smaller number of carbons.

5 14. A process for reducing NOx by hydrocarbons in exhaust gas containing excessive amount of oxygen and hydrocarbons in which 50% or more of hydrocarbons calculated in terms of methane are methane, comprising: using a catalyst which at least contains BEA type aluminosilicate with an  $\text{SiO}_2/\text{Al}_2\text{O}_3$  ratio between 10 and  
10 100 and with an  $\text{SiO}_2/\text{B}_2\text{O}_3$  ratio before ion exchange between 20 and 500, and ion-exchanged with Co to have a Co/Al ratio between 0.2 and 0.6.

add a3

add c1

add D1

add E1

add F3